CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.12/AP/STEEL/2014-15 14.04.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Mr. A. Puttaraju,** No. 'B' 4815, Pipeline B Cross, Bhahubali Nagara, Jalahalli, Bangalore - 560013.
Name of the Work	:	Providing Improvements to Roads & Drains at Sheshagiri Layout balance portion at Abbigere, near Abbigere tank, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/248/2014-15
Date of Test	:	14.04.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.50	O.K	O.K

AE-12 ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Civil-Tech Consultants & Engineers Bangalore

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VISHWANATH. I.A.
Chief Executive Officer

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

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T-2377

Job No.: CTCE/BBMP/W.No.12/AP/CSR-3/798h/CUBE/2014-15 12.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
*** Agency**	: **Mr. A. Puttaraju,** No. 'B' 4815, Pipeline B Cross, Bhahubali Nagara, Jalahalli, Bangalore - 560013.
*** Name of the work**	: Providing Improvements to Roads & Drains at Sheshagiri Layout balance portion at Abbigere, near Abbigere tank, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
*** Reference**	: BBMP/AEE/SSD/DZ/PR/248/2014-15
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 14.04.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.04.2015	12.05.2015	8.125	352.3	15.66
2	14.04.2015	12.05.2015	8.298	365.3	16.24
3	14.04.2015	12.05.2015	8.300	375.2	16.68

* Information is furnished by the Customer/Representative

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T-2377

Job No.: CTCE/BBMP/W.No.12/AP/CSR-3/798h/CUBE/2014-15 13.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. A. Puttaraju,** No. 'B' 4815, Pipeline B Cross, Bhahubali Nagara, Jalahalli, Bangalore - 560013.

*** Name of the work** : Providing Improvements to Roads & Drains at Sheshagiri Layout balance portion at Abbigere, near Abbigere tank, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.

*** Reference** : BBMP/AEE/SSD/DZ/PR/248/2014-15

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 15.04.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.04.2015	13.05.2015	8.122	478.2	21.25
2	15.04.2015	13.05.2015	8.326	485.6	21.58
3	15.04.2015	13.05.2015	8.200	498.6	22.16

* Information is furnished by the Customer/Representative

AE-12

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T-2377

Job No.: CTCE/BBMP/W.No.12/AP/CSR-3/798h/AGG/GR/2014-15 : 27.03.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Mr. A. Puttaraju,** No. 'B' 4815, Pipeline B Cross, Bhahubali Nagara, Jalahalli, Bangalore - 560013.
* Name of Work	: Providing Improvements to Roads & Drains at Sheshagiri Layout balance portion at Abbigere, near Abbigere tank, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/248/2014-15
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 25.03.2015
Date of Testing	: 27.03.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.40	95-100	85-100
20	43.55	30-70	0-20
10	13.55	10-35	0-5
4.75	3.55	0-5	-

AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ-ಬೆಂಗಳೂರು

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.12/AP/CSR 3/798b/CEMENT/2014-15 Date: 27.03.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
*AGENCY	:	**Mr. A. Puttaraju,** No. 'B' 4815, Pipeline B Cross, Bhahubali Nagara, Jalahalli, Bangalore - 560013.
*NAME OF THE WORK	:	Providing Improvements to Roads & Drains at Sheshagiri Layout balance portion at Abbigere, near Abbigere tank, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/SSD/DZ/PR/248/2014-15
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	25.03.2015
PERIOD OF TESTING	:	25.03.2015 to 27.03.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.12/AP/CSR-3/798h/SAND Gradation/2014-15 : 27.03.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

*** Agency** : **Mr. A. Puttaraju,** No. 'B' 4815, Pipeline B Cross, Bhahubali Nagara, Jalahalli, Bangalore - 560013.

*** Name of Work** : Providing Improvements to Roads & Drains at Sheshagiri Layout balance portion at Abbigere, near Abbigere tank, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/248/2014-15

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 25.03.2015

Date of Testing : 27.03.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.50	90-100	90-100	90-100	95-100
2.36	71.50	60-95	75-100	85-100	95-100
1.18	47.90	30-70	55-90	75-100	90-100
600 Micron	23.40	15-34	35-59	60-79	80-100
300 Micron	7.40	5-20	8-30	12-40	15-50
150 Micron	2.40	0-10	0-10	0-10	0-15

Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/AP/STEEL/2014-15 14.04.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
Agency	:	**Mr. A. Puttaraju,** No. 'B' 4815, Pipeline B Cross, Bhahubali Nagara, Jalahalli, Bangalore - 560013.
Name of the Work	:	Providing Improvements to Roads & Drains at Sheshagiri Layout balance portion at Abbigere, near Abbigere tank, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/248/2014-15
Date of Test	:	14.04.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.35	O.K	O.K

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